

**CLAIMS**

1. An antenna structure, comprising:
  - a first radiation element with a first element drive contact;
  - 5 an RF drive contact coupled to an RF signal interface; and
  - a moveable antenna element moveable between a first position and a second position, the moveable antenna element comprising a second radiation element, the moveable antenna element configured to:
    - while not in the second position, form a first conductive path between the RF
    - 10 drive contact and the first element drive contact while conductively isolating the RF drive contact from the second radiation element, thereby presenting a first impedance for the RF signal interface, and
    - while in the second position, conductively isolating the RF drive contact from the first element drive contact while forming a second conductive path between the
    - 15 RF drive contact and the second radiation element, thereby presenting a second impedance for the RF signal interface.
2. The antenna structure of claim 1, wherein the second radiation element is physically removed from the first conductive path while the moveable antenna
- 20 element is in the first position.
3. The antenna structure of claim 1, wherein the first impedance is substantially similar to the second impedance.

4. The antenna structure of claim 1, further comprising an impedance matching network for coupling between the RF signal interface and the RF drive contact.

5. The antenna structure of claim 1, wherein the first conductive path is formed only in the first position.

6. The antenna structure of claim 1, wherein at least one of the RF drive connection and the meander line drive connection are formed on a flexible printed circuit.

10

7. The antenna structure of claim 1, wherein, while in the second position, coupling between the first radiation element and the moveable antenna element does not induce increased RF input reflection at the RF signal interface near a frequency of interest.

15

8. The antenna structure of claim 1, wherein the RF drive contact comprises a first contact and a second contact, the first contact forming part of the first conductive path when the moveable antenna element is not in the second position and the second contact forming part of the second conductive path when the moveable antenna

20 element is in the second position.

9. The antenna structure of claim 8, wherein the moveable antenna element comprises a conductive element that forms part of the first conductive path when the moveable antenna element is not in the second position, wherein the conductive element conductively engages the first contact and the first element drive contact.

5

10. The antenna structure of claim 8, wherein the moveable antenna element comprises a feature to cause the first contact to one of conductively engage and conductively disengage the first element drive contact.

10 11. The antenna structure of claim 8, wherein the moveable antenna element comprises a second radiation element contact that is conductively connected to the second radiation element and engages the second contact when the movable antenna element is in the second position.

15

12. A wireless communication circuit, comprising:
- at least one of a receiver circuit for wirelessly receiving transmitted signals
  - and a transmitter circuit for wirelessly transmitting signals; and
  - an antenna, communicatively coupled with the at least one of a receiver circuit
- 5 and a transmitter circuit, the antenna comprising:
- a first radiation element with a first element drive contact;
  - an RF drive contact coupled to an RF signal interface; and
  - a moveable antenna element moveable between a first position and a second
- 10 position, the moveable antenna element comprising a second radiation element, the moveable antenna element configured to:
- while not in the second position, form a first conductive path between the RF drive contact and the first element drive contact while conductively isolating the RF drive contact from the second radiation element, thereby presenting a first impedance for the RF signal interface, and
- 15 while in the second position, conductively isolating the RF drive contact from the first element drive contact while forming a second conductive path between the RF drive contact and the second radiation element, thereby presenting a second impedance for the RF signal interface.

13. A wireless device, comprising:

at least one of an receiver for wirelessly receiving transmitted signals and a transmitter for wirelessly transmitting signals;

5 a baseband processing portion, communicatively coupled to the at least one receiver and transmitter, for processing at least one of data, voice, image and video signals in order to interface with at least one of the receiver and the transmitter;

at least one antenna, electrically coupled to the at least one receiver and transmitter, the at least one antenna comprising:

10 a first radiation element with a first element drive contact;  
an RF drive contact coupled to an RF signal interface; and

a moveable antenna element moveable between a first position and a second position, the moveable antenna element comprising a second radiation element, the moveable antenna element configured to:

15 while not in the second position, form a first conductive path between the RF drive contact and the first element drive contact while conductively isolating the RF drive contact from the second radiation element, thereby presenting a first impedance for the RF signal interface, and

20 while in the second position, conductively isolating the RF drive contact from the first element drive contact while forming a second conductive path between the RF drive contact and the second radiation element, thereby presenting a second impedance for the RF signal interface.